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PTO-1449	Attorney's Docket Number 03-002 (UCT-0063)	Serial Number 10/683,558
INFORMATION DISCLOSURE STATEMENT BY APPLICANT LIST OF ITEMS	Name of Applicant Patrick T. Mather	
(Use several sheets if necessary)	Filing Date 10/10/2003	Group Art Unit 1711

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	NAME	Class	Subclass	Filing Date If Appropriate
	3,383,336	5/14/1968	Kuyama et al.			
	3,459,725	8/5/1969	Natta et al.			
	3,563,973	2/16/1971	Arditti et al.			
	4,612,241	9/16/1986	Howard, Jr.			
	5,145,935	9/8/1992	Hayashi			
	5,147,385	9/15/1992	Beck et al.			
	5,163,952	11/17/1992	Froix			
	5,189,110	2/23/1993	Ikematu et al.			
	5,258,020	11/02/1993	Froix			
	5,395,882	3/7/1995	Siol et al.			
	5,506,300	4/9/1996	Ward et al.			
	5,607,467	3/4/1997	Froix			
	5,665,822	9/9/1997	Bitler et al.			
	5,674,242	10/7/1997	Phan et al.			
	5,769,883	6/23/1998	Buscemi et al.			
	5,880,240	3/9/1999	Tsuno			
	5,908,918	6/1/1999	Chen et al.			
	5,910,357	6/8/1999	Hachisuka et al.			
	5,955,559	9/21/1999	Handlin, Jr. et al.			
	5,954,744	9/21/1999	Phan et al.			
	5,964,744	10/12/1999	Balbierz et al.			
	6,024,764	2/15/2000	Schroeppel			
	6,086,204	7/11/2000	Magnante			
	6,156,842	12/05/2000	Hoenig et al.			
	6,160,084	12/12/2000	Langer et al.			

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	NAME	Class	Subclass	Filing Date If Appropriate
	6,217,609	4/17/2001	Haverkost			
	6,248,129	6/19/2001	Froix			
	6,368,346	4/9/2002	Jadhav			
	6,388,043	5/14/2002	Langer et al.			
	6,395,038	5/28/2002	Schroeppel			
	6,530,950	3/11/2003	Alvarado et al.			
	6,720,402	4/13/2004	Langer et al.			
	6,852,825	2/8/2005	Lendlein et al.			
	6,858,680	2/22/2005	Gunatillake et al.			

U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initial	Document Number	Date	NAME	Class	Subclass	Filing Date If Appropriate
	2002/0007222	1/17/2002	Desai			
	2002/0015519	2/7/2002	Tokas et al.			
	2002/0137864	9/26/2002	Tong			
	2003/0060793	3/27/2003	Topolkaraev et al.			
	2003/0060530	3/27/2003	Topolkaraev et al.			
	2003/0191276	10/09/2003	Lendlein et al.			
	2004/0014929	1/22/2004	Lendlein et al.			
	2004/0015261	1/22/2004	Hofmann et al.			
	2004/0024143	2/5/2004	Lendlein et al.			
	2004/0030062	2/12/2004	Mather et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	COUNTRY	Class	Subclass	TRANSLATION YES NO
	EP 0 368 274	08.11.1989	European			
	EP 0 422 693	12.02.1991	European			
	WO 95/26762	12.10.95	PCT			

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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	COUNTRY	Class	Subclass	TRANSLATION YES	TRANSLATION NO
	WO 99/46327	16.09.99	PCT				
	WO 00/71554	30.11.2000	PCT				
	WO 01/07499	01.02.2001	PCT				
	WO 01/91822	06.12.2001	PCT				
	WO 02/39875	23.05.2002	PCT				
	WO 02/059170	01.08.2002	PCT				
	WO 02/083786	24.10.2002	PCT				
	WO 03/088818	30.10.2003	PCT				
	WO 2004/032799	22.04.2004	PCT				
	WO 2004/033515	22.04.2004	PCT				
	WO 2004/033539	22.04.2004	PCT				
	WO 2004/033553	22.04.2004	PCT				
	WO 2005/009523	03.02.2005	PCT				

Examiner Initial	OTHER INFORMATION (including author, title, date, pertinent)
	JP 02255830 Abstract Only; 1990-10-16 (1 page)
	JP 02274526 Abstract Only; 1990-11-08 (1 page)
	JP 11154420 Abstract Only; 1999-06-08 (1 page)
	JP 11302493 Abstract Only; 1999-11-02 (1 page)
	JP 2232212 Abstract Only; 1990-09-14 (1 page)
	JP 2258817 Abstract Only; 1990-10-19 (1 page)
	JP 3068610 Abstract Only; 1991-03-25 (1 page)
	JP 3068611 Abstract Only; 1991-03-25 (1 page)
	JP 4100831 Abstract Only; 1992-04-02 (1 page)
	JP 62192440 Abstract Only; 1987-08-24 (1 page)
	JP 63145325 Abstract Only; 1988-06-17 (1 page)

EXAMINER	DATE CONSIDERED
	3-06

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Examiner Initial	OTHER INFORMATION (including author, title, date, pertinent)
	JP 63179955 Abstract Only; 1988-07-23 (1 page)
	JP 8301952 Abstract Only; 1996-11-19 (1 page)
	JP 9235329 Abstract Only; 1997-09-09 (1 page)
	JP 2000319423 Abstract Only; 2000-11-21 (1 page)
	Liu, et al., "Chemically Cross-Linked Polycyclooctene: Synthesis, Characterization and Shape Memory Behavior" Macromolecules, (2002), 35, pages 9868-9874
	Dinger, et al., " High Turnover Numbers with Ruthenium-Based Metathesis Catalysts" Advanced Synthesis Catalysis, Vol. 344 (2002) pages 671-677
	Oh et al., "Dynamic Mechanical Properties of Carbon Black Filled Trans-polyoctenamer Vulcanizates" (10/19/85) Abstract Only, 1 page
	Lendlein et al., "Biodegradable, Elastic Shape-Memory Polymers for Potential Biomedical Applications, Science (2002) 296, pages 1673-1676
	Nakayama, K., "Properties and Applications of Shape-Memory Polymers", International Polymer Science and Technology 1991, 18, T/43-48
	Irie, M., Shape Memory Polymers, Cambridge University Press: Cambridge, UK 1998, pages 203-219
	Boochathum et al., "Vulcanization of Cis- and Trans-Polyisoprene and Their Blends: Crystallization Characteristics and Properties, European Polymer Journal, 37 (2001) pages 429-434
	Boochathum et al., "Vulcanization of Cis- and Trans-Polyisoprene and Their Blends: Cure Characteristics and Crosslink Distribution", European Polymer Journal 37 (2001) pages 417-427
	Schwab et al., "Synthesis and Applications of $RuCl_2(=CHR')(PR_3)_2$: The Influence of the Alkylidene Moiety on Metathesis Activity", J. Am. Chem. Soc. (1996) 118, pages 100-110
	Bielawski et al., "Highly Efficient Ring-Opening Metathesis Polymerization (ROMP) Using New Ruthenium Catalysts Containing N-Heterocyclic Carbene Ligands", Angew. Chem. Int. Ed. (2000) 39, No. 16, pages 2903-2906
	Calderon et al., "Melting Temperature of trans-Polyoctenamer", Journal of Polymer Science: Part A-2, Vol. 5, (1967), pages 1283-1292
	Natta et al., "The Monoclinic Structure of Even trans-Polyalkenamers", European Polymer Journal, Vol. 3 (1967) pages 339-352
	Bassi et al., "The Triclinic Structure of trans-Polyoctenamer", European Polymer Journal, Vol. 4, (1968), pages 123-132
	Schneider et al., "Crystallinity of trans-Polyoctenamer: Characterization and Influence of Sample History", Journal of Molecular Catalysis, 46 (1988), pages 395-403
	Yeh et al., "Radiation-Induced Crosslinking: Effect on Structure of Polyethylene", Colloid & Polymer Sci. 263 (1985), pages 109-115
	Fu et al., "Nanoscale Reinforcement of Polyhedral Oligomeric Silsesquioxane (POSS) in Polyurethane Elastomer", Polymer Int. 49 (2000) pages 437-440
	Qing Ge and Patrick T. Mather, "Synthesis of Thermoplastic Polyurethanes Bearing Nanostructured Hard Segments: New Shape Memory Polymers" Polymer Program, Institute of Materials Science and Department of Engineering, UCONN, (July 2003), (Abstract, 2 pages)
	Fu et al., "Structural Development During Deformation of Polyurethane Containing Polyhedral Oligomeric Silsesquioxanes (POSS) Molecules", Polymer 42 (2001) pages 599-611
	Du Prez, F. E. et al., "Segmented Networks by Cationic Polymerization: Design and Applications" NATO Sci. Ser., Ser. E, (1999), pages 75-98
	Goethals et al. "Poly(Vinyl Ethers) as Building Blocks for New Materials" Macromol. Symp., (1998), 132, pages 57-64

EXAMINER	EXAMINER
	3-06

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Examiner Initial	OTHER INFORMATION (including author, title, date, pertinent)
	Kagami et al., "Shape Memory Behaviors of Crosslinked Copolymers Containing Stearyl Acrylate" Macromol. Rapid. Commun., (1996), 17(8), pages 539-543
	Kaneko et al., "Shape Memory Gels with Multi-Stimuli-Responses", Proc. SPIE-Int. Soc. Opt. Eng., (1999) 3669, pages 199-208
	Reyntjens et al., "Polymer Networks Containing Crystallizable Poly(octadecyl vinyl ether) Segments for Shape-Memory Materials", Macromol. Rapid. Commun., (1999), 20(5), pages 251-255
	H. G. Jeon et al., "Shape Memory and Nanostructure in Poly(norbornyl-POSS) Copolymers", Polymer International, 49, (2000), pages 453-457
	P. T. Mather et al., "Strain Recovery in Drawn POSS Hybrid Thermoplastics," XIIIth International Congress on Rheology, Cambridge, UK (2000), 4, pages 53-55
	P. T. Mather et al., "Strain Recovery in POSS Hybrid Thermoplastics," Polymer Preprints 41(1), (2000), pages 528-529
	Lendlein et al., "AB-Polymer Networks Based on Oligo(ε-caprolactone) Segments Showing Shape-Memory Properties" Proc. Natl. Acad. Sci., USA (2001), 98(3), pages 842-847
	Wei et al., "Shape-Memory Materials and Hybrid Composites for Smart Systems", Journal of Materials Science 33, (1998) pages 3743-3762
	Van Humbeeck, "Shape Memory Alloys: A Material and a Technology", Advanced Engineering Materials, Vol. 3, No. 11, (2001) pages 837-850
	Byung Kyu Kim et al., "Polyurethane Ionomers Having Shape Memory Effects", Polymer, Vol. 39, No. 13 (1998), pages 2803-2808
	Lin et al., "Study on Shape-Memory Behavior of Polyether-Based Polyurethanes. I. Influence of the Hard-Segment Content", Journal of Applied Polymer Science, Vol. 69, (1998), pages 1563-1574
	Lin et al., "Study on Shape-Memory Behavior of Polyether –Based Polyurethanes. II. Influence of Soft-Segment Molecular Weight", Journal of Applied Polymer Science, Vol. 69, (1998), pages 1575-1586
	Chun et al., "Enhanced Dynamic Mechanical and Shape-Memory Properties of a Poly(ethylene terephthalate)-Poly(ethylene glycol) Copolymer Crosslinked by Maleic Anhydride", Journal of Applied Polymer Science, Vol. 83, (2002) pages 27-37
	Gajria et al., "Miscibility and Biodegradability of Blends of Poly(Lactic Acid) and Poly(Vinyl Acetate)", Polymer, Vol. 37, (1996), pages 437-444
	Ishii, M. "Shape Memory Resins", Trans-polyisoprene-based Shape Memory Resins, Zairyo Gijutsu (1989), 7(6), Abstract Only, 1 page
	Lendlein, Andreas and Steffen Kelch, "Shape-Memory Polymers", Angew. Chem. Int. Ed. 41, (2002), pages 2034-2057
	Ingrid A. Rousseau and Patrick T. Mather, "Shape Memory Effect Exhibited by Smectic-C Liquid Crystalline Elastomers" J. Am. Chem. Soc., 125, (2003), pages 15300-15301
	Liu et al., "Shape Memory of Hydrogen-Bonded Polymer Network/Poly(ethylene glycol) Complexes", Chengdu Institute of Organic Chemistry, Chinese Academy of Sciences, 12/30/2003 (5 pages)
	Jeong et al., "Miscibility and Shape Memory Property of Poly(vinyl chloride)/Thermoplastic Polyurethane Blends", Journal of Materials Science 36 (2001) 5457-5463
	Jeong et al., "Miscibility and Shape Memory Effect of Thermoplastic Polyurethane Blends with Phenoxy Resin", European Polymer Journal 37 (2001) 2245-2252
	Zhu, G. et al., "Shape-Memory Effects of Radiation Crosslinked Poly(ε-caprolactone)", Journal of Applied Polymer Science, Vol. 90, 1589-1595 (2003)
	Yoshida et al., "Development and Application of Shape-Memory Polymer Gel (Part I)-Synthesis and Processing of Shape-Memory Polymer Gel", Hokkaidoritsu Kogyo Shikenjo Hokoku (1999), 298 Abstract Only, 1 page
	"Silsesquioxanes, Bridging the Gap Between Polymers & Ceramics" ChemFiles Vol. 1, No. 6 (2001) (14 pgs)
	Ramanathan et al., "Polyurethane Urea", Polymer Data Handbook, New York: Oxford University Press (1999), pages 878-881

EXAMINER		EXAMINER	3-06

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Examiner Initial	OTHER INFORMATION (including author, title, date, pertinent)
	Ramanathan et al., "Polyurethane Elastomers", Polymer Data Handbook, New York: Oxford University Press (1999), pages 874-877
	Ramanathan et al., "Polyurethane", Polymer Data Handbook, New York: Oxford University Press (1999), pages 870-873
	Sung et al., "Properties of Segmented Poly(urethaneureas) Based on 2,4-Toluene Diisocyanate. 1. Thermal Transitions, X-ray Studies, and Comparison with Segmented Poly(urethanes)", Macromolecures, 13, (1980), pages 111-116
	Gupta et al., "Effect of Solvent Exposure on the Properties of Hydroxy-Terminated Polybutadiene-Based Polyurethanes", Polym Int, 52, (2003), pages 938-948
	Bielawski et al., "Highly Efficient Syntheses of Acetoxy- and Hydroxy-Terminated Telechelic Poly(butadiene)s Using Ruthenium Catalysts Containing N-heterocyclic Ligands", Polymer, 42, (2001), pages 4939-4945
	Sarbu et al., "Synthesis of Hydroxy-Telechelic Poly(methyl acrylate) and Polystyrene by Atom Transfer Radical Coupling", Macromolecules, 37, (2004), pages 9694-9700
	Mauler et al., "Liquid-Crystalline Polyacrylate Crosslinked with α, ω Polyisoprene Diacrylate Segments, Polymer Bulletin, 41, (1998) pages 291-297
	Sartomer Product Bulletin, "Hydroxyl Terminated Polybutadiene Resins and Derivatives-Poly bd and Krasol" September 2004, 40 pages
	Wache et al., "Development of a Polymer Stent with Shape Memory Effect as a Drug Delivery System", Journal of Materials Science: Materials in Medicine, 14, (2003), pages 109-112
	Valimaa et al., "Viscoelastic Memory and Self-Expansion of Self-Reinforced Bioabsorbable Stents", Biomaterials, 23, (2002), pages 3575-3582
	"Suite of Shape-Memory Polymers", Chemical & Engineering, February 5, 2001, 1 page
	Woojin Lee, "Polymer Gel Based Actuator: Dynamic Model of Gel for Real Time Control", Massachusetts Institute of Technology, Department of Mechanical Engineering, May 1996, 120 pages
	Brochure, Degussa High Performance Polymers, The Rubber with Unique Properties, Vestenamer©, Undated, 12 pages NO DATE
	Gordon, "Applications of Shape Memory Polyurethanes", Proceedings of the First International Conference on Shape Memory and Superelastic Technologies, SMST International Committee, (1994), pages 115-199
	Liu et al., "Thermomechanical Characterization of a Novel Series of Shape Memory Polymers", SPE ANTEC Proceedings, (2002) 5 pages
	WO9746633 Abstract Only; 1997-12-11 (1 page)
	WO0046262 Abstract Only; 2000-08-10 (1 page)
	EP0343442 Abstract Only; 1989-11-29 (1 page)
	WO03084491 Abstract Only; 2003-10-16 (1 page)
	WO03084490 Abstract Only; 2003-10-16 (1 page)
	WO2004006885 Abstract Only; 2004-01-22 (1 page)
	WO03035753 Abstract Only; 2003-05-01 (1 page)
	EP0343442 Abstract Only; 1989-11-29 (1 page)
	XP002274198; JP61231051A Abstract Only; 1986-10-15 (1 page)

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~	WO 00/10485	02.03.00	PCT			
~	WO 2003/093341	13.11.2003	PCT			
~	WO 2004/011525	05.02.2004	PCT			
~	WO 94/14890	07.07.94	PCT			
~	EP 1 000 958 A1	17.05.2000	European			
~	EP 0 385 443 A2	05.09.90	European			

Examiner Initial	OTHER INFORMATION (including author, title, date, pertinent)
~	International Search Report; International Application No. PCT/US 03/32059; Mailing Date: 21/04/2004 (2 pages)
~	International Search Report; International Application No. PCT/US 03/32308; Mailing Date: 03/06/2004 (2 pages)
~	International Search Report; International Application No. PCT/US 03/32329; Mailing Date: 01/04/2004 (2 pages)
~	International Search Report; International Application No. PCT/US 03/32138; Mailing Date: 31/03/2004 (2 pages)

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